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nascent 🗬

nascent definition

nas-cent (nas'ent, na'sent)

adjective

- 1. coming into being; being born
- 2. beginning to form, start, grow, or develop: said of ideas, cultures, etc.
- CHEM. designating or of the state of an element just released from a compound and having unusual chemical activity because atoms of the element have not combined to form molecules nascent chlorine

Etymology: L nascens, prp. of nasci, to be born: see genus

Related Forms:

· nascence nas' cence noun or nascency nas' cency

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APPENDIX 2



CuO + Ba = Cu + BaO		Cu2O + Ba = 2 Cu + BaO	
T (oC) delta G 226,85 -396,649 326,85 -396,088 426,85 -395,283 526,85 -394,316 626,85 -393,196 726,85 -391,957	K 2,75E+41 3,05E+34 3,14E+29 5,59E+25 6,63E+22 2,98E+20	T (oC) delta G 226,85 -373,96 326,85 -372,006 426,85 -369,874 526,85 -367,631 626,85 -365,276 726,85 -362,835	K 1,17E+39 2,44E+32 3,99E+27 1,01E+24 1,59E+21 8,98E+18
CuO + Zn = Cu + ZnO	`	Cu2O + Zn = 2 Cu + ZnO	
T (oC) delta G 226,85 -190,535 326,85 -189,599 426,85 -186,504 526,85 -186,341 626,85 -184,089 726,85 -181,785	K 8,05E+19 3,21E+16 1,17E+14 1,47E+12 4,84E+10 3,12E+09	T (oC) delta G 226,85 -167,846 326,85 -165,517 426,85 -163,095 526,85 -159,658 626,85 -155,169 726,86 -152,643	K 3,43E+17 2,57E+14 1,48E+12 2,66E+10 1,16E+09 9,41E+07
CuO + Ca = Cu + CaO		Cu2O + Ca = 2 Cu + CaO	
T (oC) delta G 226,85 -462,283 326,85 -461,001 426,85 -459,533 526,85 -457,952 626,85 -456,248 726,85 -454,399	K 1,98E+48 1,37E+40 1,96E+34 7,99E+29 3,03E+26 5,45E+23	T (oC) delta G 226,85 -439,594 326,85 -436,919 426,85 -434,124 526,85 -431,267 626,86 -426,329 726,85 -425,277	K 8,43E+45 1,09E+38 2,49E+32 1,44E+28 7,25E+24 1,64E+22

CuO + BaSi	O3 = Cu + Ba	O + SIO2	Cu2O + Bas	SIO3 = 2 Cu	+ BaO + SiO	2 .
T (oC)	delta G	·ĸ	T (oC)	delta G	K	
226.85	275,898	1.50E-29	226,85	290,519	4,45E-31	
326.85	266,385	6,43E-24	326,85	282,94		
426,85	260,167	3.85E-20	426,85	275,08	2,97E-21	
526,85	248,012	6,40E-17	526,85	267,483		
626,85	238,903	1.36E-14	626,85	259,916		
726,85	229,86	9,84E-13	726,85	252,464	6,49E-14	
CuO + ZnSi	O3 = Cu + Zr	10 + SiO2	Cu2O + Zn5	SIO3 = 2 Cu	+ ZnO + SiO	2
T (oC)	delta G	к	T (oC)	delta G	κ '	
226,85	112,941	1,69E-12	226,85	135,63		
326,85	103,963	8,89E-10	326,85	128,045	7,12E-12	
426,85	94,906	8,28E-08	426,85	120,315	1,05E-09	
526,85	85,775	2,51E-06	526,85	112,46	4,54E-08	
626,85	76,541	3,61E-05	626,85	104,461	8,65E-07	
726,85	67,299	3,05E-04	726,85	96,421	9,19E-06	
CuO + CaS	iO3 = Cu + C	aO + SiO2	Cu2O + Ca	SiO3 = 2 Cu	ı + CaO + SiC	12
T (oC)	delta G	к	T (oC)	delta G	K	
226,85	847,319	3,01E-89	226,85	870,008	1,28E-91	
326,85	827,456	9.14E-73	326,85	851,538	7,32E-75	
426,85	807,768	5.27E-61	426,85	833,177	6,69E-63	
526,85	788,032	3,51E-52	526,85	814,717	6,35E-54	
626,86	768,234	2,58E-45	626,85	796,154	6,18E-47	
726,85	746,911	9,64E-40	726,85	776,033	2,90E-41	

		,				
CuO + BaA	1204 = Cu +	Al2O3 + BaO	Cu2O + Ba	A 204 = 2 Cu	+ Al2O3 + BaO	
T (oC)	delta G	ĸ	· T (oC)	delta G	κ .	
226,85	229.207	1,13E-24	226,85		4,83E-27	
326,85	222,796	4.01E-20	326,85		3.21E-22	
426,85	216,425	7,07E-17	426,85		8.98E-19	
526,85	210,082	1,92E-14	526,85		3,47E-16	
626,85	203,76	1,49E-12	626,85		3,57E-14	
726,85	197,459	4,85E-11	726,85	226,581	1,46E-12	
CuO + CaA	d2O4 = Cu +	Al2O3 + CaO	Cu2O + Ca	Al2O4 = 2 Cu	+ Al2O3 +CaO	
T (oC)	delta G	K	T (oC)	delta G	κ	
226,85	157,348	3,60E-1,7	226,85		1,55E-19	
326,85	150,57	7,73E-14	326,85		6,23E-16	
426,85	143,916	1,81E-11	426,85		2,31E-13	
526,85	137,196	1,10E-09	526,85		1,99E-11	
626,85	130,486	2,66E-08	626,85	158,406	6,40E-10	
726.85	123,805	3,40E-07	726,85	152,927	1,03E-08	

CuO	+	2	FeO	=	CII	+	Fe2O3

T (oC)	delta G	K
226,85		4,37E+10
326,85		2,91E+08
426,85		8,25E+06
526,85		5,86E+05
626,85		7,71E+04
726,85	-80,325	1,57E+04

3 CuO + Cr2O3 = 2 CrO3 + 3 Cu

T (oC)	delta G	κ.
226,85	410,091	K 1,43E-43
326,85	400,513	1,35E-35

CuO + V2O3 = Cu + V2O4

	lelta G	к
226,85	-54,246	4,65E+05
326,85	-56,218	7,84E+04
426,85	-58,133	2,18E+04
526,85	-60,005	8,28E+03
626,85	-52,137	1,06E+03
726,85	-63,632	2,11E+03

2 CuO + V2O3 = Cu + V2O5

7	(oC)	delta G	K
	226,85	-25,958	5,15E+02
	326,85	-26,268	1,94E+02
	426,85	-27,443	1,12E+02
	526,85	-28,017	6,75E+01
	626,85	-28,8	4,69E+01
	726,85	-32,817	5.18E+01

Cu2O + 2 FeO = Cu + Fe2O3

T(oC)	delta G	κ '
226,85	-79,161	1,86E+08
326,85	-73,128	2,33E+06
426,85	-67,275	1,05E+05
526,85	-61,649	1,06E+04
626,86	-56,282	1,85E+03
726,85	-51,203	4.73E+02

3 Cu2O + Cr2O3 = 2 CrO3 + 3 Cu

T (oC)	delta G	K
226,85	213,208	5,32E-23
326,85	222,889	3.94E-20

Cu2O + V2O3 = Cu + V2O4

т	(oC)	delta G	к
	226,85	-31,557	1,98E+03
	326,85	-32,136	6,28E+02
	426,85	-32,724	2,77E+02
	526,85	-33,32	1,50E+02
	626,85	-24,217	2,54E+01
	726,85	-34.51	6.35F+01

2 Cu2O + V2O3 = Cu + V2O5

(oC)	delta G	K
226,85	19,42	9,36E-03
326,85	21,896	1,24E-02
426,85	23,375	1.80E-02
526,85	25,353	2,21E-02
626,85	27,04	2.70E-02
726.85	25 427	4 705 00